

WHAT IS CLAIMED IS:

1. Ultraviolet ray curable ink comprising a coloring component, a reactive origomer and/or a reactive prepolymer, a reactive
5 diluent and a photoinitiator,
wherein a polymer of said reactive origomer and/or reactive prepolymer
and a polymer of said reactive diluent have a glass transition point of 0°
to 70°C, respectively.
- 10 2. The ultraviolet ray curable ink of Claim 1, wherein the
difference in the glass transition point of said polymer of said reactive
origomer and/or reactive prepolymer and said polymer of said reactive
diluent is at most 30°C.
- 15 3. An ultraviolet ray curable ink composition comprising a
coloring component, a reactive diluent, a photoinitiator and a reactive
origomer and/or a reactive prepolymer which has compatibility with
said reactive diluent,
wherein said ink composition has a viscosity of 60 to 800 cps at 25°C.
- 20 4. The ink composition of Claim 3, wherein said reactive
origomer and/or reactive prepolymer has a viscosity of 40 to 10000 cps
at 60°C.
- 25 5. The ink composition of Claim 3, wherein said reactive
origomer and/or reactive prepolymer is contained in an amount of 10 to
80 % by weight.

6. A process for preparing an ink jet printed matter, which comprises the steps of:

heating the ink composition of Claim 3 to 40° to 150°C,

applying the heated ink composition to a recording medium and

- 5 curing the ink composition on the recording medium by irradiating with ultraviolet ray.